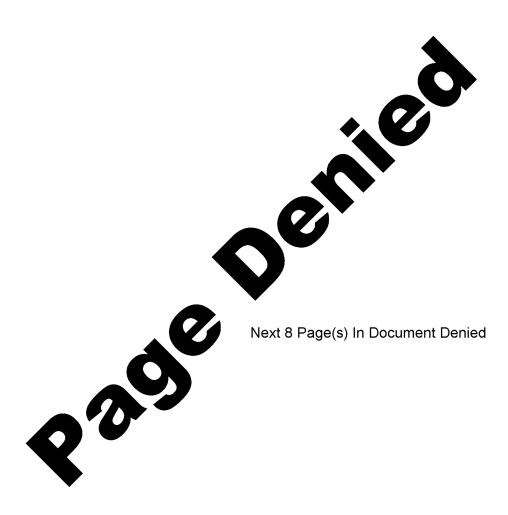
Declassified in Part - Sanitized Copy Approved for Release 2012/06/13 : CIA-RDP78-03642A001500030045-3	25 X 1
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July 17, 1959 Walt WE 7/23/59 7/23/59	25 X 1
July 17, 1959	
ILLE	:GIB
Dear Sir:	
This summary report on Task Order No. HH discusses the	- > / 4
development of a specialized cutting device for use in	5X1
and covers the activity of the program 2	25X1
from February 4 through April 30, 1959.	
The effort performed included a study of	25 X 1
rotary and reciprocating cutting tools, and power sources for the	
cutting tools. The most promising cutting devices were evaluated.	
A hand-operated implement utilizing tapered high-speed-steel burs,	
1/8, $3/16$, $1/4$, and $3/10$ inch in diameter, was selected as the unit	
that satisfied your requirements. Two of these cutting devices were	
prepared in kit form and were sent to you for field test and	
evaluation. In addition, several variations of the selected imple-	
ment and miscellaneous burs were transmitted to you for evaluation.	
Engineering Activity	
This research program was based on a discussion during which	
you described the problems associated with	25 X 1
The primary problem in related to this program 2	25 X 1
stems from the lack of space for the use of the	25X1
	5X1
the design and development of an experimental cutting device which	

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could be used to modify the so as to	25 X 1
facilitate the use of special tools	25 X 1
In order to be effective, the desired cutting implement	
has to be small, compact, lightweight, quiet in operation, and	
relatively inexpensive, and has to include its own power supply, if	
needed. Further, the cutting device has to be capable of removing	
you estimated that a	25X1
desirable tool should be able to cut out one of these	25 X 1
in 5 minutes or less.	25X1
It was originally contemplated that an appropriate design	
for such a cutting device would incorporate a file or saw in a	
rotary- or reciprocating-type hand implement. It was also expected	
that such a device might require an attachment to position the unit	
and to aid in maintaining the cutting	25 X 1
action of the tool. Therefore, for the purpose of analysis, the	
problems associated with the design and development of a suitable	
cutting device were divided into three groups:	
(1) The cutting tool	
(2) The hand-operated device, i.e., the unit	
which holds the cutting tool	
(3) The method of attachment and the ad-	
justment of the implement relative to	
•	25 X 1
Preliminary Study	
To initiate the effort under this program, a study was made	
A variety of cutting tools were	25 X 1

Declassified in Part - Sanitized Copy Approved for Release 2012/06/13 : CIA-RDP78-03642A001500030045-3 we have the first for the -3-July 17, 1959 25X1 then selected for evaluation, involving the using primarily manually and battery-powered holding devices. The details of the effort performed are presented in the following. 25X1



	-13-	July 17, 1959

Future Work

After the different-sized cutters and the various types of "handles" for the cutters have evaluated by you, there may be a need for finalizing the design of a kit incorporating the various associated tools and devices. We would be glad to be of help in connection with this and/or with any further effort on such cutting implements.

We would appreciate any comments that you or your associates might care to make with regard to the results of the effort under Task Order No. HH.

 Sincer	ely,	,		

ABW:mlm

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25X1

25X1

